

SOCIALIZATION OF DANGEROUS GOODS TO HIGH SCHOOL STUDENTS

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ABSTRACT

In this current era, Community Service (PKM) is a very useful thing to improve people's quality of life, heavy traffic on the road creates a lot of risk of accidents, especially high school students who still need a lot of understanding about road safety including knowing everything. symbolic of roads and regulations on highways, one of which needs to be known is the cargo of dangerous goods that require special handling, all goods and types of goods and their conditions endanger the safety and health of the public, through several lecturers and cadets involved, Land Transportation Polytechnic Bali carries out community service activities to SMA 1 Baturiti Tabanan Regency by referring to the information on Dangerous Goods in increasing students' knowledge about the cargo of dangerous goods. With this PkM socialization, the expected goal is to increase students' awareness of safety in their environment and to know the transportation of dangerous goods and to know the function and purpose of the Placard display in the vicinity, because if they do not know the dangers of dangerous goods, they will pose a threat to the safety of students. This activity is carried out using the mediation method with counseling which aims to increase understanding and awareness about the cargo of Dangerous Goods.

Keywords: community service; dissemination of dangerous goods; high school students

INTRODUCTION

At this time the development of national freight transportation is growing rapidly. This condition requires socialization to the community, especially teenagers to find out what types of goods are carried by vehicles so that they can carry out safety factors while on the road (Soimun et al., 2020). Road safety can be influenced by various things, such as the transportation of dangerous goods (Rizaldy, Benned, Setiawan, & Astuti, 2021). Dangerous goods are special goods classified as endangering the personal safety of others or solid, gas or liquid goods that endanger health, life and property, as well as transportation and storage (Government Regulation of the Republic of Indonesia, 2001). Dangerous goods are divided into nine classes of dangerous goods and it is important to know which products are included (Regulation of the Minister of Environment of the Republic of Indonesia, 2013). Some items, such as explosives and poison, are clearly dangerous. But other items may surprise you. Aerosols, perfumes, and most products that contain lithium batteries – such as cell phones or laptops – are also included.

Based on the facts on the ground, the circulation and use of dangerous goods transportation continues to increase both in type and quantity, and there are still many dangerous goods transportations that do not yet contain warning labels (Decree of the Director General of Land Transportation, 2004). For this reason, goods must be inspected specifically, placed and packaged so that they can be transported to their destination, avoiding errors in the processing process and causing accidents in the transportation of goods. When this unexpected condition came, the drivers did not escape from negligence/mistakes, including an accident in transporting goods by crushing the vehicle in front of them. With the level of danger caused, it is necessary to consider the handling used for these goods must follow the requirements or

regulations that apply nationally and internationally issued by government and ministry regulations related to the rules regarding the handling of dangerous goods and their transportation is by land. Regarding the handling of dangerous goods on the road as a goods transportation activity, the community needs to be given knowledge of socialization related to the types of dangerous goods.

Socialization is a learning process carried out by a person (individual) to act or behave based on standards that exist and are recognized in society (Soejono Dirdjosisworo, 1985). Related to that, socialization activities about the transportation of dangerous goods carried by vehicles on the road are needed by the community in order to avoid avoiding road accidents caused by the transportation of dangerous goods. Seeing today, road users are almost dominated by teenagers who do not know much about the types of freight transport. dangerous, and also still need to know traffic rules seeing now that the roads are starting to get crowded so that people need to know the importance of loading dangerous goods, and know the functions and uses of placard displays, so this socialization is carried out to high school students to explain the dangers of dangerous goods in Street.

METHOD

This activity begins with the preparation of the committee in determining the date and location of the socialization. After going through these stages, it was determined that community service activities regarding the Dissemination of Dangerous Goods were carried out on September 27, 2022 at SMA Negeri 1 Baturiti, precisely on Jalan Perean, Perean, Baturiti District, Tabanan Regency, Bali. The following is a location point viewed using the Google Maps application.

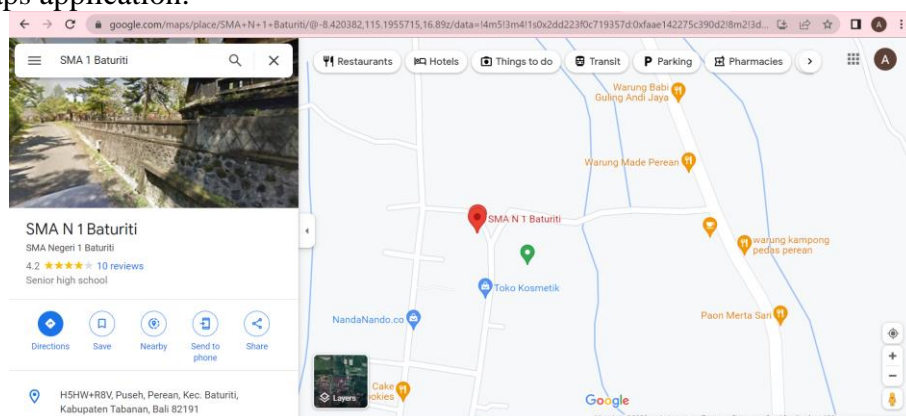


Figure 1. Map of Activity Implementation Locations

The learning method used is the mediation method. Providing public knowledge with counseling that aims to increase understanding and awareness of dangerous transport loads to the public, especially teenagers at SMA Negeri 1 Baturiti. This helps reduce unwanted risks, and is expected to have a better understanding of the cargo of dangerous goods when there are actions resulting from dangerous goods in the surrounding environment and provide students with provisions on understanding and handling dangerous goods transportation during the trip. Pre-test and post-test were conducted to find out how this program was successfully applied to students of SMA Negeri 1 Baturiti.

RESULTS AND DISCUSSION

Community service activities, namely socializing the cargo of dangerous goods to students at SMA 1 Baturiti are expected to be able to provide insight to students about the cargo of dangerous goods so that they can be applied on the road and increase understanding of awareness about dangerous goods and know all kinds of placard displays. The following are the factors that affect the level of achievement of the program, namely:

a. Preparation Stage

The preparation stage begins with a committee coordination meeting for the location and time of implementation. After being determined, the committee contacted SMA Negeri 1 Baturiti to request permission to carry out activities.



Figure 2. Committee Coordination Meeting

a. Implementation Stage

On the day of implementation, it begins with the provision of information and briefing to the team that will carry out the socialization. This briefing is carried out for the smooth running of activities regarding the duties and functions of each team when the activity is in progress.



Figure 3. Briefing before the activity takes place

After the briefing by the committee team, each member prepares to take their respective positions. The target class in the implementation of this socialization is class XII IPA. The lecturer explained the material using ppt with the help of props in the form of a placard of dangerous goods with the help of cadets of the Bali Land Transportation Polytechnic.



Gambar 1.
Barang
Berbahaya

Materi



Figure 5. Use of Practice Materials in the Form of Placard Dangerous Goods

After learning in class, a question and answer session was held. It is used to increase students' curiosity about the cargo of dangerous goods. At the end of the activity, a group photo was taken and souvenirs were given with the Principal of SMA Negeri 1 Baturiti.



Figure 6. Giving souvenirs to SMA Negeri 1 Tabanan

a. Test Execution

The test was carried out before giving the material and after giving the material using the Quizziz application. The following is the result of the pre-test that has been done by the socialization participants.

Name	Value
Game Started On	Tue 27 Sep 2022,10:47 AM
Game Type	Live Quiz
Participants	36
Total Attempts	36
Class Accuracy	52%
Game Ends On	Tue 27 Sep 2022,11:12 AM

QUIZZ

Figure 7. Pre-test results with the Quizziz Aplikasi Application

Based on the results of the pre-test analysis by Quizziz, the percentage of the class who answered correctly was 52% of the 36 students of class XII science at SMA Negeri 1 Baturiti with a total time of 25 minutes. These results are compared with the post-test conducted as follows.

Name	Value
Game Started On	Tue 27 Sep 2022,12:01 PM
Game Type	Live Quiz
Participants	36
Total Attempts	36
Class Accuracy	67%
Game Ends On	Tue 27 Sep 2022,12:07 PM




Figure 8. Post-test results with the Quizizz Aplikasi Application

Based on the post-test results, the percentage of participants who answered correctly was 67% of 36 students with a total processing time of 6 minutes. This proves that the program was successfully implemented and can increase students' knowledge. This can be shown through the increase in the percentage obtained and the length of time working on the same questions.

a. Participant Participation

Participants actively participate in activities. This is marked by an attractive class condition during discussions and questions and answers. At the end of the activity, souvenirs were handed out to the 3 (three) best participants. The best participants are selected based on test results and activity during learning.



Figure 9. Awarding the Best Three Participants

CONCLUSION

Community Service Activities on Dissemination of Dangerous Goods Cargo carried out at SMA Negeri 1 Tabanan went well. This socialization is aimed at students with the aim that students understand what to do when near dangerous goods transport so that students continue to drive by prioritizing safety factors. This activity is carried out using the mediation method, where the lecturer provides material through a screen display assisted by the presence of dangerous goods placards commonly found in freight transport. This activity attracted students' enthusiasm in learning about the cargo of dangerous goods because many students were able to answer and ask questions during class. From the results of the dissemination of dangerous goods to high school/K level students, the level of students' understanding of dangerous goods has increased. From the results of the pre-test and post-test conducted, it was also quite significant so that this socialization activity was successful. At the end of the activity, three (3) best participants were selected to receive an award based on the test scores obtained and their activeness in class. This activity is expected to be able to be carried out periodically to other schools to improve road safety if the student is in an area adjacent to the transportation of dangerous goods.

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